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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Tarin, Stephen A.	Confirmation No.:	7914
Serial No.:	10/629,810	Art Unit:	2168
Filed:	July 28, 2003	Examiner:	Dwivedi, Mahesh H.
For:	VALUE-INSTANCE-CONNECTIVITY COMPUTER-IMPLEMENTED DATABASE	Attorney Docket No.:	8676-042 (909537-999037)

RESUBMISSION OF PREVIOUSLY SUBMITTED MATERIALS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

1.   Enclosures accompanying this Information Disclosure Statement are:

   1a.   ☒ A list of all patents, publications, applications, or other information submitted for consideration by the office.

   1b.   A legible copy of :

      ☒ Each publication or that portion which caused it to be listed on the PTO-1449;

      ☐ For each cited pending unpublished U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion that have been checked to be unavailable at the USPTO's private PAIR system;

      ☐ An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report;

      ☐ Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications;

      ☐ All other information or portion which caused it to be listed on the PTO-1449.

   1c.   ☐ Pursuant to 37 C.F.R. § 1.98(a)(2)(ii), copies of the cited U.S. patents and U.S. patent application publications are not submitted herewith unless required by the office.

   1d.   ☐ Pursuant to 1287 OG 163, copies of cited pending unpublished applications that are available at the USPTO's private PAIR system are not submitted herewith.

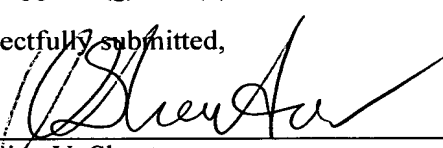2.   ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b):

☐ Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);

☐ Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;

☐ Before the mailing of the first Office action on the merits.

3.   ☐   This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.

(Check either Item 3a or 3b)

3a.   ☐   The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.

3b.   ☐   The $180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is:

☐ enclosed.
☐ to be charged to Jones Day Deposit Account No. 50-3013.

(Item 3b to be checked if any reference known for more than 3 months)

4.   ☐   This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.

The Certification Statement in Item 5 below is applicable.

The $180.00 fee set forth in 37 C.F.R. §1.17(p) is:
☐ enclosed.
☐ to be charged to Jones Day Deposit Account No. 50-3013.

5.   ☐   Certification Statement (applicable if Item 3a or Item 4 is checked):

(Check either Item 5a or 5b)

5a.   ☐   In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

5b.   ☐   Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not **received** by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.

5c.   ☐   Pursuant to 37 C.F.R. §1.704(d), each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not **received** by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.

6.   ☐   This application is a continuation application under 37 C.F.R. §1.53(b) or (d).

(Check appropriate Items 6a and/or 6b)

6a.   ☐ A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.

6b.   ☐ Copies of publications listed on Form PTO-1449 from prior application Serial No.   , filed on   , of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).

7.   ☒ Resubmission of Previously Submitted Materials. (Check Item 7a)

7a.   ☒ The materials enclosed herewith were previously submitted in U.S. patent application No. 09/112,078, filed on July 8, 1998, now U.S. patent No. 6,009,432, of which this application claims priority under 35 U.S.C. §120. These materials were brought to the Examiner's attention in the current application by way of an Information Disclosure Statement filed on August 2, 2006 under 37 C.F.R §1.98(d). The USPTO seems to have misplaced the materials, through no fault of applicant, and they have not been considered by the Examiner in the current application. Therefore, applicant has enclosed a physical copy of the missing materials, and respectfully requests that they be considered by the Examiner. No fees are required for this submission, since the materials were previously cited in the current application in an Information Disclosure Statement filed under 37 C.F.R §1.98(d).

8.   ☐ In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check Item 8a, 8b, or 8c)

8a.   ☐ Satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.

8b.   ☐ Set forth in the application.

8c.   ☐ Enclosed as an attachment hereto.

9.   ☒ The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Jones Day Deposit Account No. 50-3013.

10.   ☒ No admission is made that the information cited in this Statement is, or is considered to be, material to patentability and no representation is made that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).

Respectfully submitted,

Date: February 16, 2007

_____   38,051

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Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use several sheets if necessary)

ATTY DOCKET NO. 8676-042 (909537-999037)	APPLICATION NO. 10/629,810
APPLICANT: Tarin, Stephen A.	

FILING DATE: July 28, 2003	ART UNIT: 2168	CONF. NO.: 7914

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS*		DOCUMENT NUMBER	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A01				

FOREIGN PATENT DOCUMENTS

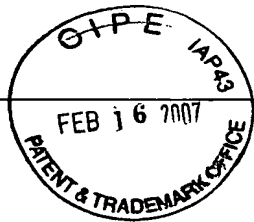| EXAMINER'S INITIALS*		Country Code, Number, Kind of Code (if known)	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
						YES	NO
	B01						

NON PATENT LITERATURE DOCUMENTS *(include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book ,magazine, journal, etc.,), date, page(s)s, volume, publisher, city and/or country where published., etc.)*

EXAMINER'S INITIALS*		
	C01	Fiat *et al.*, 1991, "An Implicit Data Structure for Searching a Multikey Table in Logarithmic Time," Journal of Computer and System Sciences vol. 43, 406-424
	C02	Fiat *et al.*, 1988, "Storing and Searching a Multikey Table," ACM, pp. 344-353
	C03	Knuth, D. E., 1998, "The Art of Computer Programming," 2d Ed., vol. 3, 5, 584, Addison-Wesley Publishing Company
	C04	Lehman *et al.*, August, 1986, "A Study of Index Structures for Main Memory Database Management Systems," Proc. 12th Int'l Conf., Very Large Data Bases, Kyoto, Japan, pp. 294-303
	C05	Lehman *et al.*, 1986, "Query Processing in Main Memory Database Management Systems," ACM, pp. 239-250
	C06	Munro, 1987, "Searching a Two Key Table Under a Single Key," ACM pp. 383-387
	C07	Nevergelt *et al.*, 1984, "The Grid File: An Adaptable, Symmetric Multikey File Structure," ACM, pp. 108-124
	C08	Yao, July 1981, "Should Tables Be Sorted?," Journal of the Assoc. of Computing Machinery, vol. 28, no. 3, pp. 615-628
	C09	Babb,"Implementing a Relational Database by Means of Specialized Hardware," ACM Transactions on Database Systems, vol. 4, no.1, March 1979, pp. 1-29
	C10	Goldstein *et al.*, "The MacAIMS Data Management System," Record of the 1970 ACM SICFIDET Workshop on Data Description and Access, Nov. 15-16, 1970, pp. 201-229
	C11	Goldstein *et al*, "Database Management with Sequence Trees and Tokens," IEEE Transactions on Knowledge and Data Engineering, vol. 9, no. 1, Jan-Feb 1997, pp. 186-192
	C12	Sharman, "Update-By-Dialogue: An Interactive Approach to Database Modification," ACM SIGMOD International Conference on Management of Data, Toronto, Canada, Aug. 3-5, 1977
	C13	Strnad, "The Relational Approach to the Management of Data Bases," Information Processing 71, Proc. Of IFIP Congress 71, vol. 2, Ljubljana, Yugoslavia, Aug. 23-28, 1971, published 1972, pp. 901-904
	C14	Titman, "An Experimental Data Base System Using Binary Relations," Database Management, North-Holland Publishing Company, 1974, pp. 351-360

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with **MPEP 609**; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO. 8676-042 (909537-999037)	APPLICATION NO. 10/629,810
	APPLICANT: Tarin, Stephen A.	
	FILING DATE: July 28, 2003	ART UNIT: 2168 CONF. NO.: 7914

(Stamp: GIPE / FEB 16 2007 / PATENT & TRADEMARK OFFICE)

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EXAMINER'S INITIALS*		DOCUMENT NUMBER	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A01				

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS*		Country Code, Number, Kind of Code (if known)	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
						YES	NO
	B01						

NON PATENT LITERATURE DOCUMENTS *(include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book ,magazine, journal, etc.,), date, page(s)s, volume, publisher, city and/or country where published., etc.)*

EXAMINER'S INITIALS*		
	C01	"ERDB Entity-Relation Database," ERDB Website and ERDB Manual, www.ataindy.com, copyright 1998, Automated Technology Associates
	C02	"Monet Source Code," dated Jan. 8, 1996, as appears on www.cwi.nl/~monet/srcdoc.html as of Feb. 5, 1999
	C03	"Monet Performance," www.cwi.nl/~monet/performance.html, last modified Sept. 20, 1995
	C04	Boncz *et al.*, "The Drill Down Benchmark," www.cwi.nl/~monet/papers.html, appears in Proceedings of the 24th VLDB Conference New York, USA, 1998
	C05	Boncz *et al.*, "Flattening an Object Algebra to Provide Performance," www.cwi.nl/~monet/papers.html, appears in 14th International Conference on Data Engineering, Feb. 23-27, 1998, Orlando, Florida, USA
	C06	Boncz *et al.*, "Monet and Its Geographic Extensions: a Novel Approach to High Performance GIS Processing," as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C07	Boncz *et al.*, "Monet An Impressionist Sketch of an Advanced Database System," www.cwi.nl/~monet/papers.html, appears in Basque International Workshop on Information Technology, Data Management Systems, San Sebastian, Spain, July 19-21, 1995
	C08	van den Berg *et al.*, "Monet Meets 007," Nov. 3, 1995, as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C09	Kersten *et al.*, "A Data Cube Algebra Engine for Data Mining," as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C10	van den Berg, "Dynamic Query Processing in a Parallel Object-Oriented Database System," Ph.D. Thesis, published at CWI, 1994, as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C11	van den Berg *et al.*, "Analysis of a Dynamic Query Optimization Technique for Multi-Join Queries," as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C12	Angara website, www.angara.com, copyright 1998, Angara Database Systems, Inc.
	C13	Cache website, www.intersys.com, copyright 1996, 1997, 1998, InterSystems Corporation
	C14	"The Dali Main-Memory Storage Manager," Dali website, www.bell-labs.com/project/dali, copyright 1996, as appears on the website as of Feb. 5, 1999

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NYI-3953726v1

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	APPLICANT: Tarin, Stephen A.	
	FILING DATE: July 28, 2003	ART UNIT: 2168 CONF. NO.: 7914

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EXAMINER'S INITIALS*		
	C15	Jagadish *et al.*, "Dali: A High Performance Main Memory Storage Manager," www.bell-labs.com/project/dali, appears in Proceedings of the 20th VLDB Conference Santiago, Chile, 1994
	C16	Bohannon *et al.*, "Recoverable User-Level Mutual Exclusion," as appears on www.bell-labs.com/project/dali as of Feb. 5, 1999
	C17	Bohannon *et al.*, "Logical and Physical Versioning in Main Memory Databases," www.bell-labs.com/project/dali, appears in Proceedings of the Conference on Very Large Database, 1997
	C18	"Times Ten Performance Software," Times Ten website, www.timesten.com, copyright 1997, 1998
	C19	"Titanum Database Engine Technical Synopsis" copyright 1998, Micro Data Base Systems, Inc.
	C20	Herrin *et al.*, "Schema and Tuple Trees: An Intuitive Structure for Representing Relational Data," www.hsdi.com/qddb/article2, appears in Computing Systems, vol. 9, no. 2, copyright 1996 by the USENIX Association
	C21	Herrin *et al.*, "An ASCII Database for Fast Queries of Relatively Stable Data," www.hsdi.com/qddb/article2, appears in Computing Systems, vol. 4, no. 2, copyright 1991 by the Regents of the University of California
	C22	Date, C. J., "An Introduction to Database Systems," 3rd Ed., pp.33-61, Addison-Wesley Publishing Company
	C23	Date, C.J., August, 1995, "An Introduction to Database Systems," 6th Ed., pp. 1-51, 710-760, Addison-Wesley Publishing Company
	C24	Batory, D.S., "On Searching Transposed Files," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 4, no. 4, December 1979, pp. 531-544
	C25	Batory et al., "A Unifying Model of Physical Databases," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 7, no. 4, December 1982, pp. 509-539
	C26	Eggers et al., "Efficient Access of Compressed Data," IEEE, 1980, pp. 205-211
	C27	Eggers et al., "A Compression Technique for Large Statistical Databases," IEEE, 1981, pp. 424-434
	C28	Valduriez, P., "Join Indices," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 12, no. 2, June 1987, pp. 218-246
	C29	Olken et al., "Rearranging Data to Maximize the Efficiency of Compression," ACM, 1986, pp. 78-90

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